

Message Text

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C O N F I D E N T I A L STATE 072899

EXCON

E.O. 11652: XGDS-1

TAGS: ESTC, COCOM, GW, XH

SUBJECT: GERMAN TECHNOLOGY FOR MANUFACTURE OF MICROPROCES-
SOR SYSTEM TO EASTERN EUROPE--IL 1564

REF: A) OECD PARIS 9430, B) COCOM DOC (76) 1634

1. OBJECT. CP3-F MICROPROCESSOR SYSTEM CONSISTS OF FOUR
HIGH DENSITY PMOS/LSI CHIPS WHICH ARE THE BUILDING BLOCKS
FOR A COMPLETE MICROCOMPUTER. EXPANDABILITY MUST HAVE BEEN
A MAJOR DESIGN FACTOR FOR THE CP3-F. DIRECT INTERCONNEC-
TION OF UP TO TWO CENTRAL PROCESSING UNITS AND A COMBINA-
TION OF UP TO FIFTEEN PROGRAM STORAGE UNITS, DATA STORAGE
UNITS AND PROGRAM DATA STORAGE UNITS IS POSSIBLE. CONSE-
QUENTLY, RATHER EXTENSIVE MULTIMICROPROCESSOR CONFIGURA-
TIONS ARE POSSIBLE. THE SYSTEM HAS GOOD SOFTWARE SUPPORT.
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2. CP3-F MICROPROCESSOR WOULD HAVE WIDESPREAD CIVIL AND
MILITARY APPLICATIONS. SUCH A DEVICE WOULD NOT BE EXPORTA-
BLE UNDER IL 1564. THE EXPORT OF THE TECHNOLOGY IS NOT
PERMISSIBLE UNDER IL 1565, NOTE 15. NO SAFEGUARDS COULD
BE DEvised TO ENSURE THAT THE CP3-F MICROPROCESSORS WOULD
NOT BE USED IN MILITARY APPLICATIONS.

3. TRANSFER OF MANUFACTURING KNOW-HOW IN THIS CASE WOULD DECREASE THE GAP BETWEEN WESTERN AND EASTERN KNOW-HOW IN A CRITICAL TECHNOLOGY. THE CRITICAL STAGES OF MANUFACTURE OF SOPHISTICATED CHIPS ARE IDENTIFIED. SIGNIFICANT ENGINEERING KNOW-HOW CONCERNING THESE CRITICAL STAGES WOULD BE TRANSFERRED.

4. RE FRENCH COMMENT IN DOC (76) 1763 ON "LOW PERFORMANCE OF THE SYSTEM" US TECHNICIANS BELIEVE FRENCH DEL WAS REFERRING TO THE RELATIVE LOW SPEED OF THE PMOS CP3-F AND 8-BIT WORD LENGTH, AND STATE THAT THE FIRST LOW CAPABILITY FEATURE CAN BE PARTIALLY OVERCOME BY USING A MULTIMICROPROCESSOR CONFIGURATION; IT IS PROBABLE THAT A 16-BIT WORD LENGTH COULD ALSO BE FORMATTED IN A MULTIMICRO-PROCESSOR CONFIGURATION.
CHRISTOPHER

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Message Attributes

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Capture Date: 01-Jan-1994 12:00:00 am
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Copy: SINGLE
Sent Date: 02-Apr-1977 12:00:00 am
Decaption Date: 01-Jan-1960 12:00:00 am
Decaption Note:
Disposition Action: RELEASED
Disposition Approved on Date:
Disposition Case Number: n/a
Disposition Comment: 25 YEAR REVIEW
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Disposition History: n/a
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Litigation History:
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